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Declass Review by NGA.

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NPIC/SS/TB-67 2 November 1970

MEMORANDUM FOR: Executive Director, NPIC

THROUGH : Chief, Support Staff

SUBJECT : NPIC Customer Course

1. Attached is the agenda for the NPIC "Customer Course" which incorporates the comments and recommendations of OSR. For reasons both of ease of handling and of equipment and space limitations the class membership should be restricted to a maximum of fitteen participants. Anticipated enrollment during the first year of the course could justify monthly offerings of the course.

- 3. Courses which utilize a large number of instructors and rely upon production personnel as instructors regularly have the problem of maintaining an experienced, capable cadre of instructors. Experience has demonstrated that the instructor cadre will be continuously changed by personnel assignments, priority projects, and crash assignments. Also, good instructors need to spend more time preparing their presentations and practical exercises than the time actually spent in the classroom. This remains true even after the first and second course presentation. Production requirements often do not allow for the necessary preparation time. An example of these problems was the seven week NPIC Photographic Interpretation Course developed by the Center at considerable cost in 1963. Contractual education specialists and consultants were used to design and develop the course. The course incorporated "latest" techniques of programmed instruction. However, to conduct the course photo interpreters from within the Center were used as the instructors.

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SUBJECT: NPIC Customers Course

It was this factor that caused the course to be given up after four runnings and turned over to IAD, the predecessor of IAS. After several runnings in IAD the course was again given up for the same reasons as for NPIC:

- a. The difficulty in maintaining an available when needed qualified group of instructors.
- b. The amount of lost production time in preparing for, updating, and conducting the course.

Based on this experience, the NPIC and IAS have relied for PI training entirely upon the Defense Sensor and Applications Training Program administered by the Air Force at Offutt Air Force Base.

- 4. Four days of each Customer Course presentation would require fifteen light tables (940 split-format). Conditions existing until at least early 1971 would require depriving the PI's of their light tables for use in the course. The only space available in which could adequately accommodate fifteen 940 light tables arranged for classroom instructional purposes is the auditorium (6N-217). This space is already heavily scheduled for training through January of 1971.
- 5. Training Branch recommends that the Center not attempt to conduct a Customer Course until spring 1971 when there should be available the necessary light tables, classroom space, and the effect of the work load upon the Center and upon the availability of instructional personnel from production components has been experienced.

Chief,	Training	Branch,	SS/NPIC	

25X1

Attachment: a/s

25X1

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8 October 1970 25X1 No. of No. of REMARKS Briefers Manhours Day Estimate on any materials used by Mr. Lundahl, or NRO briefers are not 7 briefers 15 included. 1 Aide 1) Material cost against PSG 16 2 briefers Material cost against PSG 7 4 briefers 3 16 Material cost against PSG 4 4 briefers 1 Aide 5 5 briefers 16 Material cost against PSG l Aide TOTAL

25 Aitial total cost	lst course weel
25% apetitive cost	per course week

Note: *Fifteen light tables are required. This possibly can be computed as an additional man hour cost if any PI's are deprived of their equipment.

NPIC CUSTOMERS COURSE

The following agenda is based insofar as possible on three guidelines:

- A consideration of the point of view of the participating analysts,
 i.e. the capabilities of NPIC and the application of these capabilities to the needs of the course participants;
- 2. An orientation toward topics of current intelligence interest, in order to produce aximum interest and involvement on the part of the participants;
- 3. A selection of topics which show NPIC's contribution, both actual and potential, to the intelligence community. Briefers will be informed that the orientation of the course is not merely substantive knowledge but more importantly a discussion of the multiple and interrelated methods necessary for maximally productive interpretation.

Arthur C. Lundahl

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DAY 1

0800-0930

WELCOME. INTRODUCTION TO NPIC.

Brief history of the Center,

photographic systems and Center

intelligence contributions of

0945-1045

THE COMIREX

the past.

The role of COMIREX in mission planning, target prioritization, workings of the various committess, etc. Emphasis will be on the procedures which guide a targeting requirement from the originating analyst to NPIC exploitation.

1050-1215

MISSION PARAMETERS

Discussion of

systems in general, covering such topics as scheduling, tasking of systems, orbital parameters, weather factors in targeting, limitations on mid-mission targeting, and the limitations on parameters caused by the requirement of specific parameters such as stereo or oblique coverage.

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25X1

25X1

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TOP SECRET

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(Day 1, cont.)

1300-1350

AIRCRAFT AND DRONE PHOTOGRAPHY

Discussion of drone, combat reconnaissance aircraft, SR-71, U-2R photography flown in SEA, Cuba, etc. exploited by the Center. Brief discussion of other aerial resources, such as Corridor photography, not exploited by the Center but available in the Washington area.

25X1

1400-1600

MISSION PREPARATIONS AND DATA BASE

Pre-Mission activity, including:

Data base, prediction systems, film distribution, computer-generated support materials, mission requirements;

Mission processing, including:

Preliminary cables, OAKs, OAK Supplements
Discussion of use of collateral during
mission, including the type and extent
of support necessary from external components;

Data Base resources, including:

Contents and maintenance of target brief file, NPIC historical file, requester access to TBF, other machine retrieval aids.

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DAY 2

0800-0900	IEG	25X ²
	Organization and role of IEG in first-,	
	second-, and third-phase reporting.	
	The role of IEG vs. IAS, specifically relating	
	to questions generated by mission cables and OAK	
	reports.	

PHOTOGRAPHIC INTERPRETATION

A photo interpretation workshop, where all students will be introduced to photo interpretation equipment and techniques and become aware of

	photo inte	rpretation terminology used in NPIC reporting.	
	0900-0945	Description of photography	25 X 1
		and interpretation techniques applied to	
		them.	
		Demonstration of light tables, optics and	
		stereo-vision exercise.	
	1000-1100	KII-4B Exploitation	25X1
25X1	1100-1200		
	1300-1330	Comparison of(for	25X1
25X1			

25X1

25X1

25X1

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(Day 2, cont.) 1330-1445 Airfield exploitation on the light tables answering COMIREX requirements.

> Include examples of decrease of activity ("before and after" situation) and of

dummy and decoy use.

1500-1615 GOB exploitation on the light tables

answering COMIREX requirements.

Include examples of decrease of activity

("before and after" situation) and of

dummy and decoy use.

DAY 3

0800 -	0015
UOUU-	0045

Exploitation category examples (Stereo pairs) on light tables with brief resume on the

25X1

interpreters' first recognition of the

category.

0845-0945

MENSURATION

25X1

Use of vugraphs, to include:

Mission - support PI

Training of personnel

Instruments - Mono, stereo, special purpose

Type of dimensional data obtainable from

photography

Accuracy studies

Submission of measurement request

Mensuration vs. PI calculation

Availability of services to non-NPIC personnel

25X1

1000-1130

MENSURATION DEMONSTRATION

2N414 -

Walk-through demonstration of acquiring

a measurement for the OAK

Demonstration of third-phase support,

to include:

Tour of instrument area

Display and explanation of products

How requests are submitted and acted upon

Examples of mensuration problems

(Day 3, cont.)

1130-1200

PHOTO LAB

2N414 -

Photo lab products to aid PI and photogrammetrist

Explanation of special techniques used to enhance

imagery, to include:

Microdensitometer trace

Isodensitometer plot

Density cuts

Imagery enhancement

1300-1315

PI TECHNIQUES - INTRODUCTION

25X1

25X1

1315-1415

ABM - Radar and Missile

- Correlation of deployed activity with R&D
 prototypes. Graphic, mensural comparisons and
 shadow and image analysis. Specific examples
 to include characteristics of the Moscow area
 weapons system and purpose of TRY ADD buildings.
- Combined mensural analysis of satellite, attache, and Soviet television photography.
 Specific example - The GALOSH ABM missile.

1430-1600

Practical exercise

PI Techniques,	Cont.	
0800-0845	Electronics 25X	(1
	Discussion of the various techniques used to	
	push the resolution beyond its system limits.	
	llow through multiple coverage and a variety	
	of look angles and sun angles the PI extracts	
	bits of information which, when composited, can	
	produce quite accurate antenna and antenna	
	system configuration, complete with mensuration.	
	Specific topics will include tracking antennas	
	(interferometers) and telemetry antennas.	
0845-0945	Practical exercise	
1000-1045	Nuclear Testing 25X	(1
	Both China/USSR Test indicators, atmospheric	
	and below ground; techniques used in making the	
	determination. Use of models, vugraphs.	
1045-1130	Practical exercise	
1215-1300	Aircraft R&D, Prototype, and Series Production 25X	(1
	Roof coverage studies (square footage increase)	
	through repetitive coverage as an indicator of	
	increased capacity and advanced model production;	
	R&D, prototypes;	

Relation of field to deployment.

Practical exercise

1300-1415

(Day 4, cont.)

1430-1515

China Naval Buildup

North and South China Fleets;

From shipbuilding to deployment

1515-1600 Practical exercise

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DAY 5

PI Techniques	o, cont.	
0800-0845	ICBM	25X1
	Combination of comparative coverage and	
	shadow analysis to develop model of SS-9	
	launch site.	
	Combination of photography of Tyuratam,	
	photography of a damaged missile at a deployed	
	complex, and parade photography for analysis	
	of the SS-9 missile.	
	Techniques employed for identification of silos	
	before their completion.	
0845-0915	Practical exercise	
0930-1015	Indications of Hostilities	25X1
	Indications of troop massing and how indicators	
	of one aid in interpretation of successive instances.	
	Examples used - Czech crisis and Sino-Soviet border.	
1015-1045	Practical exercise	
1045-1130	Middle East Situation	25X1
	Size, shadow, and shape comparison as applied to	
	interpretation of defensive missiles and radars.	
	Specific examples - UAR deployment.	
1130-1200	Practical exercise	

, .	IUP SECRE	WORKING PAPER 25X1
Approved F (Day 5, cont.)	For Release 2004/02/11 ₁ <u>CIA^LRDP78B057</u> 03A 0 0020007	70001-6
1300-1330	Quality Control and Image Evaluations	APSD/TSG
1330-1400	Imagery Exploitation Equipment Development	RED/TSG
1410-1430	FUTURE Discussion of concepts under study for use in the future, such as 24-hour surveillance, photo interpretation on-line from satellite,	
1430-1500	COLOR Discussion of the kind of intelligence that can be derived from color imagery and some of the problems inherent in its use.	25X1
1500-1530		25X1
1530-	CRITIQUE	

problems and questions generated by course.

General critique and discussion, including

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		1			_		
SPEED LETTER		REPLY REQUESTED				5 November 1970	
					I	LETTER NO.	
			YES		NO		
TO :	Special Assistant, NPIC	FROM:	Cł	nief	E, NI	PIC/PPBS	
ATTN:							
SUBJE	CT: NPIC Customer Course						
	Al, Accepting for the moment that so wanted by customers, I do not believe are so incapable of solutions as to cadelay (from this point in time, onward design and instructor preparation and problem of availability of instructors not the cause of the demise of the NP as Roger has stated) is going to be an We should move ahead; I suggest frequency of course presentation, and a memo to Agency offices indicating or course outline (as presently drawn up of interest and anticipated participates six months, i.e. January - July. Distribution:	the ause al) sh dry s (a IC Phone also also ar in), and	light a de noule run, real notes si de ver notes as itental real notes as itental real notes as itental real real real real real real real re	nt telayd be list grapin tr, telayd a second control to the list a second	table out of the stamp. Our obstitution of the stamp. Our obstitution out of the stamp. Our obstitution out	e and space problems til spring. Whatever casioned by course do I believe the one, but, by the way, Interpretation Course, spring as it is now. as an aid to planning ling of need, we send objective, tentative ng a response in terms	
	Orig - NPIC/ODIR		(d			_	
	2 - NPIC/PPBS					SIGNATURE	
	REPLY					DATE	
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Since you asked . . .

Roger started out our non-believe and did not consider all of the variables in remaining a non-believer.

The kind of course that Bino and Co. have drafted is similar to the "D" frozen runnings and the DOS & T Career Revolute Courses a Jome of the performers are pretty high close (ALL) in

terms of being spared from
other efforts but the remainder
of the program is, in effect
al ready existant Ingeneral, reaching to
Ch/TB's concern over light

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which treated the same two problems as possible stanbling blocks. My point here is that To indicated that it would list alternatives in litating paper. I see none here. I de suept an attempt to dadge the whole is sue by putting the course off until April When everyone (JJH included) night forget it due Hs.you know, some of the reasons for the early PI course Stumbling and stuttering reflected the personalities involved and the Center overall "game plan". Many of those factors do not Approtest For Related 2004/02(11:04:RIP786057034600200070001-6

standpoint of the uninitiated or partially initiated HQ's analyst they will never exist.

I believe para. 3 is not a contribution to the satisfaction of JTH's query. I believe

of JTH's query. I believe
that would in a response

be disappointed in a response

based on RLW's prince discourse. I most certainly

don't believe that RLW

has done enough home work

to come to the conclusions

noted in paras. 4 and 5.

As I said earlier ... Since

you asked

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